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NOTICE OF ALLOWANCE AND FEE(S) DUE

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7590

07/22/2010

CLARK HILL PLC 150 NORTH MICHIGAN AVENUE SUITE 2700 CHICAGO, IL 60601

EXAMINER				
CHIN, HUI H				
ART UNIT	PAPER NUMBER			

1796 DATE MAILED: 07/22/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/565.430	03/06/2008	Naomi Okamoto	501/44294/104-PCT-US	7635

TITLE OF INVENTION: RUBBER COMPOSITION AND GOLF BALL INCLUDING THE SAME AS RUBBER BASE MATERIAL

ĺ	APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
•	nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/22/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless corrected in the maintenance fee notifical indicated in the maintenan	correspondence including ed below or directed oth	ng the Patent, advance or nerwise in Block 1, by (a	rders and notification of a) specifying a new corre	maintenance fees waspondence address;	Il be mailed to the current and/or (b) indicating a sep	correspondence address as arate "FEE ADDRESS" for
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SUITE 2700	CHIGAN AVENUI		I he Sta add trai	ereby certify that thi	ificate of Mailing or Trans is Fee(s) Transmittal is bein th sufficient postage for fir Stop ISSUE FEE address O (571) 273-2885, on the o	smission g deposited with the United st class mail in an envelope above, or being facsimile late indicated below.
CHICAGO, IL 6	00601					(Depositor's name)
			<u> </u>			(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	2	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/565,430	03/06/2008		Naomi Okamoto		501/44294/104-PCT-US	7635
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE		
nonprovisional	NO	\$1510	\$300	\$0 T	\$1810	10/22/2010
EXAM	INER	ART UNIT	CLASS-SUBCLASS	J		
CHIN,		1796	525-240000			
Change of correspondence address or indication of "Fee Address" (37 FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. The Address indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. Change of correspondence address (or Change of Correspondence Address of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				logument has been filed for		
(A) NAME OF ASSIC	GNEE		(B) RESIDENCE: (CIT	Y and STATE OR Co	DUNTRY)	locument has been filed for
lease check the appropr	iate assignee category or	categories (will not be pr	inted on the patent):	Individual 🖵 Co	poration or other private gr	oup entity Government
	are submitted: To small entity discount p # of Copies	permitted)	A check is enclosed. Payment by credit ca	rd. Form PTO-2038	y previously paid issue fee is attached. te the required fee(s), any de	
a. Applicant claim	tus (from status indicated s SMALL ENT1TY statu	is. See 37 CFR 1.27.		-	L ENTITY status. See 37 C	
NOTE: The Issue Fee and interest as shown by the i	d Publication Fee (if requeecords of the United Sta	uired) will not be accepted tes Patent and Trademark	d trom anyone other than Office.	the applicant; a regis	tered attorney or agent; or t	he assignee or other party in
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CLARK HILL PLC		CHIN,	HUI H	
	HIGAN AVENUE		ART UNIT	PAPER NUMBER
SUITE 2700 CHICAGO, IL 600	501		1796 DATE MAILED: 07/22/201	0

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 329 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 329 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)
	10/565,430	OKAMOTO ET AL.
Notice of Allowability	Examiner	Art Unit
	HUI CHIN	1796
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	(OR REMAINS) CLOSED or other appropriate communication is	in this application. If not included nunication will be mailed in due course. THIS
1. This communication is responsive to 6/22/2010.		
2. X The allowed claim(s) is/are <u>1-5</u> .		
 Acknowledgment is made of a claim for foreign priority u a)	e been received. e been received in Applicat	on No
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirements
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv 		
5. CORRECTED DRAWINGS (as "replacement sheets") mu	st be submitted.	
(a) I including changes required by the Notice of Draftsper	son's Patent Drawing Revie	ew (PTO-948) attached
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	<u>.</u>	
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment o	or in the Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No 7. ☐ Examiner's 8. ☑ Examiner's	nformal Patent Application Summary (PTO-413), ./Mail Date s Amendment/Comment s Statement of Reasons for Allowance
/Ling-Siu Choi/	9.	_
Primary Examiner, Art Unit 1796	Examiner, Art	Unit 1796

Application/Control Number: 10/565,430 Page 2

Art Unit: 1796

DETAILED ACTION

1. This Office Action is in response to the Amendment filed 6/22/2010. Claims 1-5 are now pending.

Allowable Subject Matter

- 2. Claims 1-5 are allowed.
- The following is an examiner's statement of reasons for allowance:
 The present claims are allowable over the closest references: Okamoto et al. (JP 2005008817).

Okamoto et al. disclose a polybutadiene composition comprises (A) 10-70 pts.wt. of polybutadiene that includes (a) 1-9 wt. % of insoluble fraction in boiling n-hexane that melts at ≥ 180°C and (b) 99-91 wt.% of boiled n-hexane-soluble fraction that has Mooney viscosity (ML) of 35-50 and molecular weight distributions of 2.0-2.8, and (B) 90-30 pts.wt. of diene rubber other than (A) and includes (C) 20-80 pts.wt. of rubber-reinforcing agent based on 100 pts.wt. of the rubber components of (A)+(B) wherein a crosslinking agent can be used (claims 1, 2, [0033]).

Thus, Okamoto et al. do not teach or fairly suggest the claimed rubber composition, comprising: a rubber component containing (A) 1-70 weight parts of polybutadiene rubber having a Mooney viscosity (ML) of 35-50 and composed of (a) 1-9 weight % of a boiled n-hexane insoluble fraction having a melting point of 180 °C or higher and (b) 99-91 weight % of a boiled n-hexane soluble fraction having a molecular

weight distribution (Weight average molecular weight (Mw) /Number average molecular

weight (Mn)) of 3.0-5.0, and (B) 99-30 weight parts of diene-based rubber other than

(A); and a crosslinking coagent (C)mixed therein.

In light of the above discussion, it is evident as to why the present claims are

patentable over the prior art.

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to HUI CHIN whose telephone number is (571)270-7350.

The examiner can normally be reached on Monday to Friday; 8:00am - 5:00pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David Wu can be reached on 571-272-1114. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

/Ling-Siu_Choi/

Primary Examiner, Art Unit 1796

/HC/

Application/Control Number: 10/565,430

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